

RAW SEQUENCE LISTING PATENT APPLICATION US/08/669,656A

DATE: 05/14/97 TIME: 08:26:21

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING ENTERED APPLICANT: Wood John N
2		The second secon
3	(1) G	eneral Information:
4 5 6 7	(i)	APPLICANT: Wood, John N. Akopian, Armen N.
, 8 9	(ii)	TITLE OF INVENTION: Ion Channel
10 11	(iii)	NUMBER OF SEQUENCES: 31
12 13 14 15 16 17 18 19	(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: ZENECA Pharmaceuticals (B) STREET: 1800 Concord Pike, P.O. Box 15437 (C) CITY: Wilmington (D) STATE: Delaware (E) COUNTRY: USA (F) ZIP: 19850
20 21 22 23 24 25	(V)	COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
26 27 28 29 30	(Vi)	CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: US 08/669,656 (B) FILING DATE: 24-JUN-1996 (C) CLASSIFICATION:
31 32 33 34 35	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: Hohenschutz, Liza D. (B) REGISTRATION NUMBER: 33,712 (C) REFERENCE/DOCKET NUMBER: PHM.70086
36 37 38 39		TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (302) 886-7466
40 41	(2) INFO	RMATION FOR SEQ ID NO:1:
42 43 44	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 6524 base pairs (B) TYPE: nucleic acid
45 46		(C) STRANDEDNESS: single (D) TOPOLOGY: linear

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47	,		munn.	- 544										
48	(11)) MOLECU	LE TYPE:	CDNA										
49														
50		. mm.miin												
51 52														
52 53														
54		(B) L	OCATION:	20460	, , ,									
55														
56	(vi)	SECTION	CE DESCE	трттом.	SEQ ID N	n.1.								
57	(X I)) SEQUEN	CE DESCR	ir i i ou .	SEQ ID N	0.1.								
58	ጥ ልርርጥጥርር	ግጥጥ ሮጥርር	ייים איינור ייי	ACCCCAGG	יר כייייים	ACAG A	GAACAGATG (ос а са теса а с	60					
59														
60														
61														
62	AGTAGACA	AAC CTGG	GCTAAG A	AGAGATCT	C CGACCT	TATA G	AGCAGCAAA	GAGTGTAAAT	180					
63									•					
64	TCTTCCCC	CAA GAAG	AATGAG A	AG ATG	AG CTC C	CC TTT	GCG TCC G'	TG GGA	230					
65				Met G	lu Leu P	ro Phe	Ala Ser Va	al Gly						
66				1		5		-						
67														
68	ACT ACC	AAT TTC	AGA CGG	TTC ACT	CCA GAG	TCA C'	TG GCA GAG	ATC GAG	278					
69	Thr Thr	Asn Phe	Arg Arg	Phe Thr	Pro Glu	Ser L	eu Ala Glu	Ile Glu						
70	10		15			20		25						
71														
72							CC AGA ACC		326					
73	Lys Gln	Ile Ala		Arg Ala	Ala Lys	Lys A	la Arg Thr	_						
74			30		35			40						
75														
76							CT CAG CTG		374					
77	Arg GLY			GIA GIG	_	Arg P	ro Gln Leu	Asp Leu						
78 79		45			50		55							
80	333 C3C	መረመ አአረ	מאמ משמ	CCC AAC	ነ መመረሃ መእመ	COT C	AG CTC CCA	CCA CAA	422					
81							lu Leu Pro		422					
82	пуз жэр	60	GIN Hed	65	_	GIY G.	70	AIG GIG						
83		00		0.3			, ,							
84	CTG GTC	GGG GAG	CCC CTG	GAG GAC	CTA GAC	CCT T	TC TAC AGC	ACA CAC	470					
85							he Tyr Ser							
86	75	-		80	•		85							
87														
88	CGG ACA	TTC ATG	GTG TTG	AAT AAA	AGC AGG	ACC A	TT TCC AGA	TTC AGT	518					
89	Arg Thr	Phe Met	Val Leu	Asn Lys	Ser Arg	Thr I	le Ser Arg	Phe Ser						
90	90		95			100		105						
91														
92							AC CTG ATC		566					
93	Ala Thr	Trp Ala	_	Leu Phe			sn Leu•Ile							
94			110		115			120						
95							•							
96							CC ATA TTC		614					
97	Thr Ala	_		Val His	_	Phe Se	er Ile Phe	Ile Thr						
98		125			130		135							
99														

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100 101 102					GTC Val												662
103 104 105 106					TAC Tyr												710
107 108 109 110					GCA Ala												758
111 112 113 114 115					AAC Asn 190												806
116 117 118 119					ATA Ile												854
120 121 122 123					GCC Ala												902
124 125 126 127					GCC Ala												950
128 129 130 131					GTC Val												998
132 133 134 135					GGG Gly 270												1046
136 137 138 139					GCT Ala												1094
140 141 142 143					GGT Gly												1142
144 145 146 147					TGC Cys												1190
148 149 150 151					AAC Asn												1238
152	CTC	TCA	CTG	TTC	CGC	CTC	ATG	ACG	CAG	GAC	TCC	TGG	GAG	CGC	CTG	TAC	1286

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														71		a rom	616761
		_	_			_		_,		_	_	_					S17671.raw
153	Leu	Ser	Leu	Phe	_	Leu	Met	Thr	Gln	_	Ser	Trp	GIU	Arg		Tyr	
154					350					355					360		
155																	
156									AAA								1334
157	GIn	GIn	Thr		Arg	Ala	Ser	GTÀ	Lys	Met	Tyr	Met	Val		Phe	Val	
158				365					370					375			
159																	
160									TAC								1382
161	Leu	val		Phe	Leu	GTÅ	Ser		Tyr	Leu	Val	Asn		Ile	Leu	Ala	
162			380					385					390				
163																	
164		_							CAG								1430
165	val		Thr	мет	ата	Tyr		GIU	Gln	Ser	GIn		Thr	тте	Ата	GIU	
166		395					400					405					
167					~												
168									CAG								1478
169		GIU	АТА	гàг	GIU	-	гàг	Pne	Gln	GIU		Leu	GIU	vaı	Leu		
170	410					415					420					425	
171 172	220	488	ava	ava	ama	ama	773	aaa	CTG	aaa	» mm	asa	Maa	3.00	шаа	ama	1526
172									Leu								1526
174	ьуз	GIU	GIII	GIU	430	ьец	АТА	АТа	Leu	435	TTE	ASP	1111	1111	440	ьец	
175					430					433					440		
176	CAG	TICC	CAC	አርጥ	GGA	ጥር እ	מממ	תיויים	GCC	שממ	**	አአሮ	מממ	א א ייי	GAG	A C A	1574
177									Ala								13/4
178	GIII	Der	1113	445	СТУ	Der	110	Leu	450	Det	цуз	ASII	AIG	455	GIU	AIG	
179				443					400					433			
180	ΔGA	CCC	AGG	GTG	ΔΔΔ	тсδ	ΔGG	GTG	TCA	GΔG	GGC	דר כ	ACG	СУТ	GAC	ልልሮ	1622
181									Ser								1022
182	9		460		-,-		9	465	501		0_1	201	470				
183			•														
184	AGG	TCA	CCC	CAA	TCT	GAC	CCT	TAC	AAC	CAG	CGC	AGG	ATG	TCT	TTC	CTA	1670
185	Arq	Ser	Pro	Gln	Ser	Asp	Pro	Tyr	Asn	Gln	Arg	Arq	Met	Ser	Phe	Leu	
186		475				_	480	-			_	485					
187																	
188	GGC	CTG	TCT	TCA	GGA	AGA	CGC	AGG	GCT	AGC	CAC	GGC	AGT	GTG	TTC	CAC	1718
189	Gly	Leu	Ser	Ser	Gly	Arg	Arg	Arg	Ala	Ser	His	Gly	Ser	Val	Phe	His	
190	490					495					500					505	
191																	
192									TCA								1766
193	Phe	Arg	Ala	Pro	Ser	Gln	Asp	Ile	Ser	Phe	Pro	Asp	Gly	Ile	Thr	Pro	
194					510					515					520		
195																	
196									CAG								1814
197	Asp	Asp	Gly		Phe	His	Gly	Asp	Gln	Glu	Ser	Arg	Arg		Ser	Ile	
198				525					530					535			
199						•											
200									ACA								1862
201	Leu	Leu	_	Arg	∎G⊥y	Ala	GŢĀ		Thr	GLy	Pro	Leu		Arg	Ser	Pro	
202			540					545					550				
203	~~		a	ma=	900-						a	a			a -		
204									CGT								1910
205	ьeu	PIO	GIN	ser	PTO	asn	Pro	GТĀ	Arg	arg	HIS	gTA	GIU	GTU	GТÄ	GIN	

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206		555					560					565					
207 208	כידיכי	GGA	GTG	כככ	ΔСΤ	GGT	GAG	СПП	ACC	GСT	GGA	GCG	ССТ	GAA	GGC	CCG	1958
209						Gly											1330
210	570	1				575					580				- -1	585	
211	5,0					0,0					500						
212	GCA	СТС	CAC	ACT	ACA	GGG	CAG	AAG	AGC	TTC	CTG	тст	GCG	GGC	TAC	TTG	2006
213						Gly							_	_			
214					590	1		-1-		595				1	600		
215																	
216	AAC	GAA	ССТ	TTC	CGA	GCA	CAG	AGG	GCC	ATG	AGC	GTT	GTC	AGT	ATC	ATG	2054
217						Ala							_				
218				605	•			_	610					615			
219																	
220	ACT	TCT	GTC	ATT	GAG	GAG	CTT	GAA	GAG	TCT	AAG	CTG	AAG	TGC	CCA	CCC	2102
221	Thr	Ser	Val	Ile	Glu	Glu	Leu	Glu	Glu	Ser	Lys	Leu	Lys	Cys	Pro	Pro	
222			620					625					630				
223																	
224	TGC	TTG	ATC	AGC	TTC	GCT	CAG	AAG	TAT	CTG	ATC	TGG	GAG	TGC	TGC	CCC	2150
225	Cys	Leu	Ile	Ser	Phe	Ala	Gln	Lys	Tyr	Leu	Ile	Trp	Glu	Cys	Cys	Pro	
226		635					640					645					
227																	
228						AAG											2198
229	Lys	Trp	Arg	Lys	Phe	Lys	Met	Ala	Leu	Phe	Glu	Leu	Val	Thr	Asp		
230	650					655					660					665	
231																	
232						ATC											2246
233	Phe	Ala	GLu	Leu		Ile	Thr	Leu	Cys		Val	Val	Asn	Thr		Phe	
234					670					675					680		
235		~~~		~~~	a.a	m. a	~~~	1 ma		a	~~~	mma	G 3 M	000	3 ma	amm	2204
236						TAC											2294
237 238	мес	ALA	мес	685	птр	Tyr	PIO	мес	690	ASP	Ald	Pne	ASP	695	мес	rea	
239				665					0 3 0					093			
240	CAA	acc	aac	አአሮ	א חיחי	GTC	ጥጥሮ	A C C	aтa	արար	ጥጥረ	ארא	ΔΨΩ	GAG	δΨα	GCC	2342
241						Val											2312
242	01	714.4	700	71011		,		705	***	1110			710	<u></u>			
243													•				
244	TTC	AAG	ATC	ATT	GCC	TTC	GAC	CCC	TAC	TAT	TAC	TTC	CAG	AAG	AAG	TGG	2390
245	Phe	Lys	Ile	Ile	Ala	Phe	Asp	Pro	Tyr	Tyr	Tyr	Phe	Gln	Lys	Lys	Trp	
246		715					720		-	•	-	725		•	-	-	
247																	
248	AAT	ATC	TTC	GAC	TGT	GTC	ATC	GTC	ACC	GTG	AGC	CTT	CTG	GAG	CTG	AGT	2438
249	Asn	Ile	Phe	Asp	Cys	Val	Ile	Val	Thr	Val	Ser	Leu	Leu	Glu	Leu	Ser	
250	730					735					740					745	
251																	
252						AGC											2486 🗪
253	Ala	Ser	Lys	Lys	Gly	Ser	Leu	Ser	Val	Leu	Arg	Thr	Leu	Arg	Leu	Leu	
254					750					755					760		•
255																	
256						GCC											2534
257	Arg	Val	Phe	_	Leu	Ala	Lys	Ser	_	Pro	Thr	Leu	Asn		Leu	Ile	
258				765					770					775			

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